

REMARKS

Status Summary

Claims 1-31 are pending in the present application. Claims 1-31 have been objected to, but have been indicated as allowable if rewritten to overcome the objection set forth in the Office Action.

Specification

The Examiner has stated that the abstract of the disclosure is objected to because the abstract is not in compliance with the rules set forth in the MPEP. Specifically, the present abstract contains more than 25 lines or 150 words. An amended abstract is provided as indicated above.

Claim Objections

In claim 1, element (a3), the Examiner objects to the reference “the received data stream”. This element has been amended to recite “the received data bit stream”.

In claim 1, element (a4), the Examiner objects to the reference “the oversampled data stream”. This element has been amended to recite “a serial-to-parallel-conversion unit which converts the oversampled data bit stream into a deserialized data bit stream with a predetermined decimation factor”.

In claim 1, element (a5), the Examiner objects to the reference “the deserialized data stream”. This element has been amended to recite “adjusting a

phase detector gain depending on an[[the]] actual data density of the deserialized data bit stream".

In claim 1, element (b), the Examiner objects to the reference "the received data stream". This element has been amended to recite "data recognition means for recovery of the received data bit stream".

In claim 2, the Examiner objects to the reference "the parallised data bit stream". This element has been amended to recite "means for detecting the actual data density of the deserialized data bit stream".

In claim 10, the Examiner objects to the reference "the data transmission rate". This claim has been amended to recite "a data transmission rate".

In claim 18, the Examiner objects to the reference "the reference phase signals". This claim has been amended to recite "wherein the phase interpolation unit comprises a phase interpolator and a multiplexer for rotating the reference phase signals in response to the rotation control signal."

In claim 19, the Examiner objects to the reference "the delay locked loop". This claim has been amended to recite "a delay locked loop".

In claim 24, the Examiner objects to the language "a transition loss the detection unit". The claim has been amended to recite "a transition loss detection unit".

In claim 26, the Examiner objects to the references "the lock detection unit" and "the transition loss detection unit". The claim has been amended to recite

“wherein the digital control unit further includes a lock detection unit and a transition loss detection unit”.

In claim 27, the Examiner objects to the reference “said digital control unit.” The claim has been amended to recite “a digital control unit.”

In claim 28, the Examiner objects to the reference “the delay locked loop”. The claim has been amended to recite “a delay locked loop”.

In claim 31, element (a3), the Examiner objects to the reference “the oversampled data bit stream”. The claim has been amended to recite “an oversampled data bit stream”.

In claim 31, element (a4), the Examiner objects to the references “the data density” and “the average phase detector gain”. The claim has been amended to recite “adjusting a phase detector gain depending on a data density of the deserialized data stream to minimize the variation of an average phase detector gain”.

In claim 31, element (b1), the Examiner objects to the reference “the paralised data stream”. The claim has been amended to recite “the deserialized data stream”.

It is thought that these amendments overcome the objections of the Examiner, and it is respectfully submitted that claims 1-31 are now in proper condition for allowance.

CONCLUSION

In light of the above amendments and remarks, it is respectfully submitted that the present application is now in proper condition for allowance, and an early notice to such effect is earnestly solicited.

If any small matter should remain outstanding after the Patent Examiner has had an opportunity to review the above Remarks, the Patent Examiner is respectfully requested to telephone the undersigned patent attorney in order to resolve these matters and avoid the issuance of another Official Action.

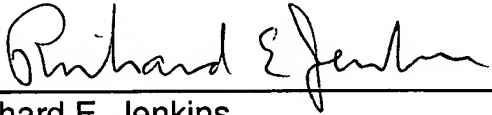
DEPOSIT ACCOUNT

The Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

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